

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 79-14139

Exam Date: 8/25/2011

1. Current Owner: ALFRED HOLDEN
PO BOX 150
WHITE BIRD ID 83554
(208)839-2800

And

ANNE B HOLDEN
PO BOX 150
WHITE BIRD ID 83554
(208)839-2800

2. Accompanied by: Alfred Holden
Phone No: (208) 839-2800
Address: PO BOX 150, White Bird, ID 83554
Relationship to Permit Holder: self

****Alfred stated that he has signed a Quit Claim Deed assigning the POU over to Anne Holden (an ownership change form was given to Alfred to complete and return to the department. Ownership change will be taken care of then.**

3. SOURCE

SALMON RIVER

TRIBUTARY

SNAKE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

SALMON RIVER SW1/4SW1/4SW1/4 Sec. 22, Twp 28N, Rge 01E, B.M.
IDAHO County

Method of Determination: Garmin GPS map 76S

*****REMARKS:** The permit submitted by the current owner stated T28N R01E Sec 22 SWSW. The permit was approved as L8(SE1/4SW1/4SW1/4). ArcMap shows the POD in the SWSWSW (no govt. lot). The POD has always been in the same location, therefore will require an amendment. Since the permit listed the POD location by the QQQ, it will be licensed by the QQQ.

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
28N 01E 22	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	.3

Total Acres: 0.3

****Only a very small portion of the 0.3 acres is located in Lot 8.**

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

Well or Diversion

<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>
A0016694	Centri Pro submersible	1	model# CB10412

Pump Serial No. or Discharge

<u>Pump Make</u>	<u>Size</u>
	2 inch

*Code to correspond with No. on map and aerial photo

*****THE INTAKE IS SCREENED AS REQUIRED BY CONDITION 029.

D. FLOW MEASUREMENTS

- Measurement:
Rain Bird 2045A Maxi-Paw Nozzle #8 @ 30 psi = 3.2 gpm
3.2 gpm X 7 nozzles running at the same time = 22.4 gpm/448.8 = 0.05 cfs
- Pump Theoretical:
(8.8) X (1 Hp) X (0.70)/[10 ft lift + (30 psi X 2.31) = 0.08 cfs capacity
- Pipe Conversion (buried line throughout sprinkler system):
1 1/2" pipe = 5 X (3.1416) X (0.00390625) = 0.06 cfs

E. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.3 \text{ acres} \times 4.0 = 1.2 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 230 \text{ days} \times 1.9834 = 13.7 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.2 \text{ af}$$

G. NARRATIVE/REMARKS/COMMENTS

At the Salmon River, almost located under the bridge is where the POD is located. A Centri Pro model CB10412 1Hp submersible pump, with screened intake. 145 ft of 2 inch ABS pipe to the housing for the 50 gallon pressure tank. There is a power pole located about 30 ft east, where the ID Tag is located (A0016694). A Demand Itron power meter is located on the power pole (serial # 55-530-195). There are 5 zones with 6 - 7 Rainbird pop-up Maxipan model #2045A nozzles on each. Each zone is run 1 time per day for 45 minutes. The frost-free hydrants are not from the surface water source. Domestic use is groundwater.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 10/31	0.030 CFS	1.20 AF
<u>Totals:</u>		0.030 CFS	1.20 AF

2. Recommended Amendments

☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

***See REMARKS under POD Location section.

I. AUTHENTICATION

Field Examiner's Name Sandy Hemmenway Date 8/31/2011
Reviewer _____ Date _____

Salmon River

1 HP submersible pump

pump house

10 Taz (lower pole)

SWSW

66k. poly pipe

28N01E

Rainbird pop-up
nozzles

SWSW

- + Rainbird pop-up
Maxi fan
model # 2045A
- 5 zones
with 6-7 nozzles
per zone
- run 1x/day
45 min./zone
- 7 nozzles
ran at 30 psi

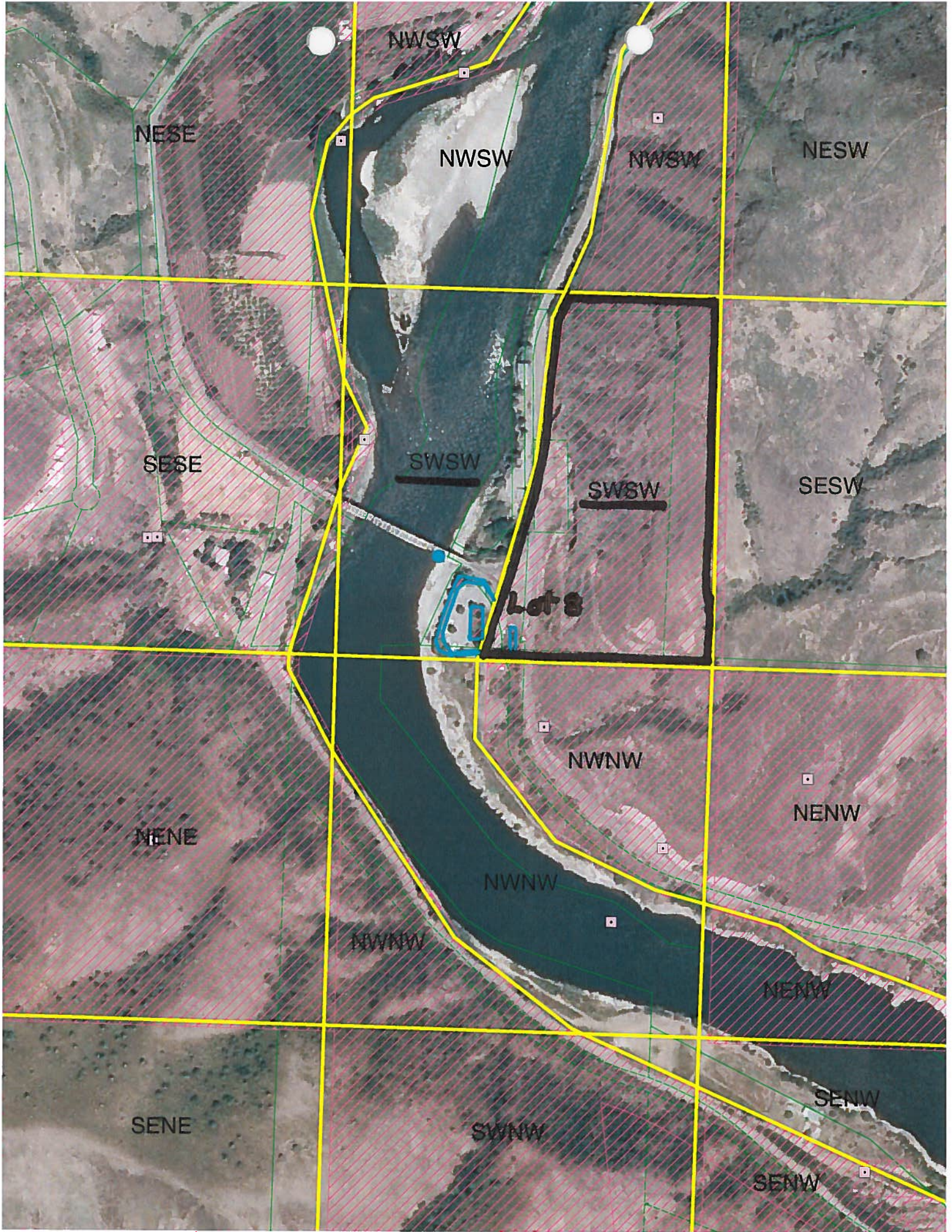
- frost-free hydrants
are not from
surface water source

UNNAMED STREET

NWNW

NWNW

Salmon River



79-14129 Under

plan 2011

5.11.2011



2045A Maxi-Paw™ / 2045A-SAM

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Full- or Part-Circle Impact Rotor Pop-Up Sprinklers

The Maxi-Paw's powerful throw permits maximum spacing and offers superior close-in watering and uniform water distribution. Low pressure loss and an efficient, straight-through flow design conserve energy and are ideal for dirty water applications.

The optional Seal-A-Matic™ prevents run-off, puddling, and erosion caused by low head drainage. And most important, it's rugged and dependable, popping up on schedule again and again because of the multi-function wiper seal.

The Maxi-Paw Rotor -- a tradition of excellence.


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- Proven impact drive.
- Straight-through flow for superior performance in dirty water.
- Five interchangeable, color-coded MPR nozzles with standard trajectory.
- Two interchangeable low angle (LA) nozzles.
- Easy to adjust, easy to service.
- No tools required to change nozzles.
- Heavy-duty plastic case with sturdy, reinforced ribbed design.
- Double-weighted arm for slower rotation and increased distance of throw.
- Self-flushing inner trip with improved inner trip lever.
- Powerful reverse action.
- Adjustable arm spring for low-pressure and low-gallage operation.
- Energy efficient, low pressure and low-gallage operation.
- Full-circle or part-circle arc 20° to 340°.
- Precision Jet tube (PJ™) minimizes side splash.
- Hooded bearing for longer life.
- Distance control diffuser pin.
- Multi-function, pressure-activated wiper seal.
- Inlet filter screen and pressure-activated wiper seal protect internal assembly from debris to ensure positive pop-up and retraction.
- Combination 1/2" (15/21) or 3/4" (20/27) bottom inlet.
- Heavy-duty, stainless steel retract spring assures positive sprinkler pop-down.
- FP trip for full- or part-circle operation.
- Side or combination bottom inlet for design flexibility.
- Side inlet installation is not recommended in freezing climates.
- Serviceable through the top of the case.
- Optional internal Seal-A-Matic (SAM) prevents puddling and erosion caused